

# Rajalakshmi Engineering College

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## NeoColab\_REC\_CS23231\_DATA STRUCTURES

### REC\_DS using C\_Week 1\_COD\_Question 6

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

John is tasked with creating a program to manage student roll numbers using a singly linked list.

Write a program for John that accepts students' roll numbers, inserts them at the end of the linked list, and displays the numbers.

##### ***Input Format***

The first line of input consists of an integer N, representing the number of students.

The second line consists of N space-separated integers, representing the roll numbers of students.

##### ***Output Format***

The output prints the space-separated integers singly linked list, after inserting the roll numbers of students at the end.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 5

23 85 47 62 31

Output: 23 85 47 62 31

### **Answer**

```
// You are using GCC
```

```
typedef struct Node node;
```

```
void display(node *head){  
    node *temp=head;  
    while(temp!=NULL){  
        printf("%d ",temp->rollNumber);  
        temp=temp->next;  
    }  
    printf("\n");  
}
```

```
node *insertAtEnd(node* head,int roll){  
    node *newnode=(node*)malloc(sizeof(node));  
    node*position;  
    newnode->rollNumber=roll;  
    newnode->next=NULL;  
    if(head==NULL){  
        return newnode;  
    }  
    position = head;  
    while(position->next!=NULL){  
        position=position->next;  
    }  
    position->next=newnode;  
    return head;  
}
```

Status : Correct

Marks : 10/10